

SOV/68-59-3-14/23

AUTHOR: Akulova, A. M.

TITLE: ~~AN~~ Intensification of the Operation of Heat Exchangers
(Intensifikatsiya raboty teploobmennikov)

PERIODICAL: Koks i Khimiya, 1959, Nr 3, pp 54-55 (USSR)

ABSTRACT: An increase in the temperature of benzolised oil of 15-20°C leaving heat exchangers was obtained by replacing gravity flow of debenzolised oil through the exchangers and by changing the method of their connecting heat exchangers (see fig.1 and 2 respectively). There are 2 figures.

ASSOCIATION: Bagleyskiy Koksokhimicheskiy Zavod (Bagleyskiy Coking Works)

Card 1/1

AKULOVA, A.M.

Bagley By-Product Coke Plant. Koks i khim. no.8:54-55 '58.
(Coke industry--Equipment and supplies) (MIRA 11:9)

EXCERPTA MEDICA Sec.13 Vol.11/2 Dermatology,etc.Feb57

474. AKULOVA E. A. Clin. of Skin and Venereal Dis., Kuban Med. Inst., Krasnodar, USSR. *A case of scleroma of an unusual localization (Russian text) VESTN. VENER. DERM. 1955, 2 (48-52) illus. 4
- It is well known that rhinoscleroma affects mainly the nose and adjacent regions of skin and mucosa. However, Pavlov described a case of a shoulder lesion, Schein a case of a finger lesion. The author observed a female patient with a widespread lesion; it started 30 yr. before she saw the patient as a 'wart' in the region of the left ankle-joint. Gradually the disease attacked vast regions of the extremities, abdomen, chest, face. In the affected areas were noticed: scars, indurations and in some places branching keloid-like strands. On the borders of the scars were seen foci of a rather firm bluish-red infiltration; here and there one could see scales and scabs. In the region of the nose and upper lip were noticed: infiltration, scarring atrophy and solitary papules of reddish colour, caused by stasis. The

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CONT

author thinks that the case is one of a peculiar kind of scleroma; in favour of this conclusion are the findings of: (a) a chronic sclerosing process, (b) the histological structure, characteristic of a granuloma with foam cells and hyaline bodies, (c) Gram-negative encapsulated rods in the nasal mucosa. On multiple inoculations a culture was obtained only once; the germ was a bacillus similar to Bac. frisch. The disease started during a stay in a district where the disease was endemic. Bibliography - 6 titles.

Kozhernikov - Leningrad

ANDRIYASHEVA, O.M.; PAKHLAVUNI, A.V.; SHOLOMOVICH, T.G.; AKULOVA, L.D.;
USPENSKAYA, N.A.; ANDRIYASHEVA, O.M., red.; YERMAKOV, M.S.,
tekhn.red.

[German-Russian dictionary of physics] Nemetsko-Russkii slovar'
po fizike. Sost. O.M.Andriiasheva i dr. Moskva, Izd-vo Mosk.
univ., 1959. 507 p. (MIRA 12:11)

(Physics--Dictionaries)

(German language--Dictionaries--Russian)

AKULOVA, L.G.

Roentgenographic study of the structure of aluminum condenser
foil during recrystallization. Sbor.nauch.rab.asp. VGU
no.2:8-13 '62.

(MIRA 18:11)

AKULOVA, L.G., inzh.

Influence of wind on the operation of natural draft cooling towers
based on domestic and foreign literature. Izv. VNIIG 76:351-364
'64. (MIRA 18:10)

AKULOVA, L.G.; GOLOVINA, A.Ye.

Updraught in cooling towers caused by wind. Trudy IPE no.248;
115-120 '65. (MIRA 18:9)

S/137/62/000/012/036/085
A006/A101

AUTHOR: Akulova, L. G.

TITLE: Roentgenographical investigation of the recrystallization structure of aluminum capacitor foil

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 12, 1962, 55, abstract 12I327 ("Sb. nauchn. rabot aspirantov Voronezhsk. un-ta" 1962, no. 2, 8 - 13)

TEXT: An X-ray analysis was made of the rolling texture and the recrystallization structure of capacitor foil made of ABO (AVO) grade aluminum of 99.85% purity. The ability to uniform etching of the foil was studied depending on the conditions of previous treatment. Specimens were investigated that were annealed at 350 - 550°C for 20 minutes, and at 550°C for a period from 10 seconds to 7 hours. It was found that within 10 seconds of annealing, recrystallization of processing is fully completed and accumulating recrystallization begins. At a longer annealing time grain growth and development of their domain structure are observed. This causes the radial washingout of spots on the radiographs.

Card 1/2

AUTHORS: Krasikov, B. S., Akulova, L. S. SOV/54-58-3-13/19

TITLE: The Points of Zero Charge of Some Binary Systems (Tochki nulevogo zaryada nekotorykh binarnykh sistem)

PERIODICAL: Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, 1958, Nr 3, pp 112-117 (USSR)

ABSTRACT: The fact that the zero charge potential depends on the composition of the metal phase has at present been confirmed in a number of papers (Refs 1-4). The number of objects, however, by means of which this dependence could be proved is very small. In the present work the authors have measured the zero charge potential of some binary systems in order to explain possible reasons for the differences between the results obtained previously and to investigate new objects. Amalgams of lead, copper, cadmium and zinc as well as copper alloyed with mercury were chosen as test objects. For the interpretation of the information obtained the method suggested by L. I. Antropov and collaborators (Refs 3, 4) was employed. This was made for the reason that the linear dependence between the logarithm of the molar fraction ($\lg N$) and the zero charge potential $\phi_{z.ch.}$ permits to represent

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The Points of Zero Charge of Some Binary Systems

SOV/54-58-3-13/19

the measuring results in a form more convenient for reading. The dependence of $\varphi_{z.ch.}$ on the composition of the lead amalgam was obtained for the first time. The measuring results of $\varphi_{z.ch.}$ of the mercury-alloyed copper showed that a linear dependence exists between $\varphi_{z.ch.}$ and $\lg N_{Hg}$. The measurements of $\varphi_{z.ch.}$ of copper amalgam, on the other side, showed that a displacement of $\varphi_{z.ch.}$ does not occur. The values of $\varphi_{z.ch.}$ of cadmium amalgam are, compared with the data ascertained by Frumkin and Servis, displaced by 80 - 90 millivolts towards negative values in the whole range of concentrations. The measurements with zinc amalgam furnished no success. In the case of amalgams the extrapolation of the dependence of $\varphi_{z.ch.}$ of binary systems unto $\lg N_{ME} = 1$ need not yield any values for the zero charge potential of the metal contained in the amalgam. This is due to the fact that the transition to solid amalgams (i.e. to alloys) is accompanied by an additional change of the electron yield energy from the binary system and thus by sudden change

Card 2/3

The Points of Zero Charge of Some Binary Systems

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of the quantity φ_{ch} of the concerned system in the point of transition from the liquid amalgam to the solid alloy. There are 4 figures, 3 tables, and 12 references, 11 of which are Soviet.

SUBMITTED: February 5, 1958

Card 3/3

FOMICHEVA, A.S., nauchnyy setrudnik; AKULOVA, M.F., veterinarnyy vrach;
APOLLOSOV, K.A., veterinarnyy vrach; KUSHINA, L.K., veterinarnyy
vrach; KOSTIAYEVA, A.A., vrach-bakteriolog (Restev-na-Denu)

Role of antiphage serum in the diagnosis of brucellosis. Veteri-
nariia 32 no.12:67-68 D '55. (MIRA 9:4)
(BRUCELLOSIS--DIAGNOSIS) (SERUM DIAGNOSIS)

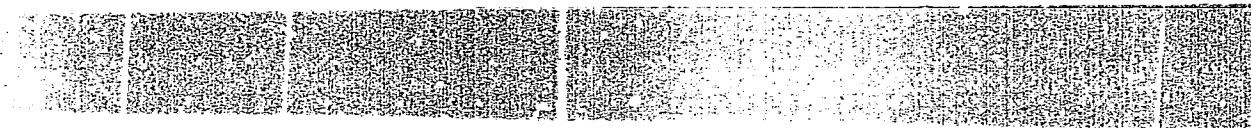
"APPROVED FOR RELEASE: 06/05/2000

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APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720020-9"

Card 1/2



Streptomycin had the most effect; penicillin only contained the de-

AKULOVA, M.F.; PANKOVA, G.Ye. mladshiy nauchnyy sotrudnik; TSUVERKALOV, D.A.,
prof.; LEONT'YEV, A.I.; POLYAKOV, D.K., kand.veter. nauk

Laboratory practice. Vete inariia 40 no.5:58-71 My '63. (MIRA 17:1)

1. Rostovskiy -na-Donu gosudarstvennyy nauchno-issledovatel'skiy
protivochumnyy institut (for Akulova). 2. Vsesoyuznyy ~~nauchno~~-issle-
dovatel'skiy institut veterinarnoy virusologii i mikrobiologii (for
Pankova, TSuverkalov). 3. Vsesoyuznyy nauchno-issledovatel'skiy insti-
tut veterinarnoy sanitarii (for Polyakov).

AKULOVA N. S.

USSR/Medicine - Infectious Diseases
(Veterinary)

Apr 51

"All-Union Conference on Equine Epizootic Lymphangitis," A. I. Moskov, N. S. Akulova

"Veterinariya" Vol XXVIII, pp 58-60

Although the infection enters through traumatic skin injury, the disease is gen pathol process which involves the whole organism. Among measures recommended by the conf for liquidation of the disease no later than 1953 are gen therapy with acriflavine and blastomycin, production of antigen for opsonic-phagocytary reaction, study of application of Nile

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USSR/Medicine - Infectious Diseases
(Veterinary) (Contd)

Apr 51

blue and Dahlia violet for local therapy and of domestic acridine derivate for gen therapy, and clarification of possibility of transmission by insects.

U-4723 (Full Translation)

181769

SARKISOV, A.Kh., professor; GREZIN, V.F., kandidat veterinarnykh nauk;
DZHILAVYAN, Kh.A., kandidat veterinarnykh nauk; AKULOVA, N.S.,
kandidat veterinarnykh nauk.

Antibiotics in veterinary medicine. Veterinariia 32 no.5:42-50
My '55. (MLRA 8:7)

1. Vsesoyuznaya nauchno-issledovatel'skaya laboratoriya po izu-
cheniyu yadovitykh gribov.
(ANTIBIOTICS) (VETERINARY MEDICINE)

AKULOVA, N.S., kand.veterin.nauk; D'YAKONOV, L.P., kand.veterin.nauk; KUTASHOVA,
A.N., mladshiy nauchnyy sotrudnik; KAZAKOV, N.A., mladshiy nauchnyy so-
trudnik

Use of chlortetracycline against anaplasmosis in sheep. Veterinariia 40
no.9:29-31 S 63.
(MIRA 17:1)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.

AKULOVA, N. S.

"Differences in distribution of c.lortetracycline in the organism of various fowls."

report submitted for Antibiotics Cong, Prague, 15-17 Jun 64.

Antibiotical Lab, All-Soviet Inst of Experimental Veterinary Medicine, Min of Agriculture, Moscow.

AKULOVA, N.S.

Characteristics of the distribution of chlortetracycline in the
organism of a bird experimentally inoculated with chicken cholera.
Antibiotiki 9 no.12:1094-1096 D '64. (MIRA 18:7)

1. Laboratoriya antibiotikov (zav. - prof. A.Kh.Sarkisov) Vsesoyuznogo
instituta eksperimental'noy veterinarii, Moskva.

AKULOVA, R.F. and RUDNEV, G.P.

"Blood Picture in Experimental Plague," Zentrbl. f. Bakt. I Abt. Orig.
119+39-48. 1930-31.

Anti-Plague Lab. of Sov. Villages of Plague Organization in North Caucasus.

AKULOVA, R.F.

Leg ulcers and their complex therapy. Khirurgia, Moskva no.4:63-70
Ap '50. (CML 19:2)

1. Of the Surgical Division (Head -- Prof. T.S.Zatsepin), Central
Institute of Resort Therapy (Director -- A.F.Tret'yakov)

AKULOVA, R. F.

Ulcers of lower extremities treated by means of balneotherapy.
Sovet. med. No. 5, May 50. p. 29-30

1. Of the Surgical Division (Head--Prof. T. S. Zatsepin), Central
Institute of Health Resort Therapy (Director--A. F. Tret'yakov).

CLML 19, 5, Nov., 1950

AKULOVA, R.F.

R.F. Akulova, Lecheniye bol'nikh s vazvami nizhnikh konechnostey / Therapy of
Ulcers of the Lower Limbs/, Press of the Central Institute for Postgraduate
Medical Study, 12 sheets, 1953 (222p.)

In this monograph summarizing the author's personal experience one of the
current topics of plastic surgery is discussed.

The book is intended for practicing surgeons.

SO: U-6472, 15 Nov 1954

AKULOVA, R.F., kandidat meditsinskikh nauk

Origin of burns on Filatov's circular flaps in Minor test.
Khirurgiya no.6:59-64 Je '54. (MLRA 7:9)

1. Iz khirurgicheskogo otdeleniya (zav. prof. T.S.Zataepin)
TSentral'nogo instituta kurortologii.

(SKIN TRANSPLANTATION,

*burns on skin grafts caused by electric bulbs during
Minor test)

AKULOVA, R.P.

Clinical aspects of and balneotherapy in chronic obliterating diseases of the peripheral vessels. Vop.kur.fizioter. i lech.fiz.kul't. 21 no.4; 57-63 O-D '56. (MIRA 9:12)

1. Iz Khirurgicheskogo otdeleniya (zav. - prof. T.S.Zatsepin)
TSentral'nogo instituta kurortologii (dir. - kandidat meditsinskikh nauk G.N.Pospelova)

(BLOOD VESSELS--DISEASES) (BATHS)

AKULOVA, R.F., starshiy nauchnyy sotrudnik

Effective use of Filatov's flap for a single-stage plastic repair
of both legs. Ortop., travm. protez. 19 no.1:70-72 Ja-F '58.
(MIRA 11:4)

1. Iz khirurgicheskogo otdeleniya (zav. - prof. T.S.Zatsepin)
TSentral'nogo instituta kurortologii (dir. - kandidat med.nauk
G.N.Pospelova)

(LEG, surg.)

Filatov(s flap for single-stage plastic surg. (Rus))

AKULOVA, R. F.: Doc Med Sci (diss) -- "Spa therapy in the complex treatment of vascular and trophic disorders to the lower extremities". Moscow, 1959. 22 pp (Acad Med Sci USSR) (KL, No 14, 1959, 122)

AKULOVA, R.F.

Practical evaluation of the method of arterial oscillography
in balneotherapy for peripheral vascular diseases. Vop. kur.,
fizioter. i lech. fiz. kul't. 27 no.4:344-350 J1-Ag'62

(MIRA 16:11)

1. Iz khirurgicheskogo otdeleniya (zav.-prof. T.S. Zatsepin
[deceased]) Tsentral'nogo instituta kurortologii (direktor
kand.med. nauk G.N.Pospelova).

*

AKULOVA, R.F.; BYKHOVSKIY, Z.Ye.[deceased]; VYGODNER, Ye.B.;
GOL'DFAYL', L.G.; DIK, V.G.; DMITRIYEVA, N.M.; DUBYNINA,
Ye.I.; LEVIN, B.S.; NEZLIN, S.Ye.; SPERANSKIY, N.I.;
SOROKINA, Ye.I.; TKACHENKO, A.F.; FREYDIN, Kh.M.;
CHETVERIKOV, N.S.; VUL'FSON, I.Z., red.; KOKIN, N.M., tekhn.
red.; PRONINA, N.D., tekhn. red.

[Manual for physicians on the selection of sanatoriums and
health resorts] Rukovodstvo dlia vrachei po sanatorno-
kurortnomu otboru. Pri uchastii R.F.Akulovoi i dr. 2 izd.,
dop. i ispr. Moskva, Medgiz, 1963. 511 p.

(MIRA 16:12)

(SANATORIUMS)

(HEALTH RESORTS, WATERING PLACES, ETC.)

AKULOVA, R.F., prof.; ANTELAVA, N.V., prof.; AR'YEV, T.Ya., prof.;
 BAIROV, G.A., prof.; VELIKOZHETSKIY, A.N., prof.; GABAY,
 A.V., prof. [deceased]; GHILORYBOV, G.Ye., prof.;
 DOBROVOL'SKIY, V.K., prof.; DOLINA, O.A., kand. med. nauk;
 ZATSEPIN, T.S., prof.; KIRICHINSKIY, A.R., prof.; KOZLOVA,
 A.V., prof.; KOTOV, A.P., prof.; KRAKOVSKIY, N.I., prof.;
 KUZIN, M.I., prof.; L'VOV, A.N., prof. [deceased];
 MITYUNIN, N.K., kand. med. nauk; MTVARELIDZE, Sh.I., prof.,
 [deceased]; NOVACHENKO, N.P., prof., zasl. deyatel' nauki
 USSR; OSIPOV, B.K., prof.; PIKIN, K.I., prof.; POSTNIKOV,
 B.N., prof.; RAKOV, A.I., prof.; STRUCHKOV, V.I., zasl.
 deyatel' nauki RSFSR, prof.; FAYERMAN, I.L., prof.
 [deceased]; FILATOV, A.N., prof.; SHMELEV, I.V., prof.
 [deceased]; PETROVSKIY, B.V., zasl. deyatel' nauki RSFSR,
 prof., otv. red.

[Multivolume manual on surgery] Mnogotomnoe rukovodstvo po
 khirurgii. Moskva, Meditsina. Vol.2. 1964. 771 p.

(MIRA 18:1)

1. Deystvitel'nyy chlen AMN SSSR (for Antelava, Petrovskiy).
2. Chlen-korrespondent AMN SSSR (for Bairov, Novachenko,
 Struchkov, Filatov).

GRIGORYAN, R.M.; VASILENKO, F.D.; AKULOVA, R.F.; TIMOSHENKO, M.A.

Effect of hydrogen sulfide baths on the peripheral blood circulation after reconstructive surgery on the major extremital arteries. Sov.med. 26 no.1:46-51 Ja '63.

(MIRA 16:4)

1. Iz 4-go khirurgicheskogo otdeleniya (zav. - prof. N.I. Krakovskiy) Instituta khirurgii imeni A.V.Vishnevskogo (dir. - deystvitel'nyy chlen AMN SSSR prof. A.V.Vishnevskiy) AMN SSSR i eksperimental'nogo otdela (zav. - prof. F.D. Vasilenko) Tsentral'nogo nauchno-issledovatel'skogo instituta kurortologii i fizioterapii (dir. - kandidat meditsinskih nauk G.N.Pospelova) Ministerstva zdravookhraneniya SSSR.
(MINERAL WATERS, SULFUROUS) (ARTERIES---SURGERY)
(BLOOD---CIRCULATION)

AKULOVA, R.F.

Urgent problems concerning the treatment of obliterating
(occlusive) diseases of the vascular system. Vop. kur.,
fizioter. i lech. fiz. kul't. 28 no.4:289-295 J1-Ag '63.
(MIRA 17:9)

1. Iz Tsentral'nogo instituta kurortologii i fizioterapii
(dir.- kand. med. nauk G.N. Pospelova).

AKULOVA, R.F.; YEREMENKO, F.I.

Examination of the physiological lability of the neuromuscular apparatus of lower extremities in chronic arterial insufficiency. Sov. med. 28 no.4:80-85 Ap '64.

(MIRA 17:12)

1. TSentral'nyy institut kurortologii i fizioterapii (direktor - kand. med. nauk G.N. Pospelova) Ministerstva zdravookhraneniya SSSR, Moskva.

AKULOVA, Raisa Fedorovna; DEKHTYAR', Ye.G., red.

[Chronic disorders of blood circulation and nutrition
of the extremities; clinical aspects and treatment]
Khronicheskie narusheniia krovoobrashcheniia i trofiki
konechnostei; klinika i lechenie. Moskva, editsina,
1965. 394 p. (MIRA 18:5)

Country : USSR
 CATEGORY : Farm Animals. Silkworm
 ASS. JOUR. : RZBiol., No. 13 1958, No. 59662
 AUTHOR : Akulova, R.Ye.; Blinkova, V.I.
 INST. : Stavropol Agricultural Institute
 TITLE : The Study of the Rate of Growth of the Silk Gland in the Mulberry Feeding Silkworm.
 ORIG. PUB. : Sb.nauchno-issled.rabot stud. Stavropol'sk. s.-kh.in-ta, 1956, vyp.4, 58-60
 ABSTRACT : The gland length in the larvae of stage V increases from the first through ninth (last) day: in the PS-5 breed from 9.4 to 33 cm., and in the B-1 breed from 14.7 to 34.1 cm.; the gland weight increases from 60 to 1,205 mg. and from 48 to 1,316 mg., respectively. The increase of gland length of the larvae of stage V in the PS-5 breed is more intensive during the first four days. The growth of silk gland in the B-1 breed is more uni-

CARD:

1/2

AKULOVA, T.Ye., inzh.

Investigating deformations of shoe uppers caused by wearing. Izv.
vys.ucheb.zav.; tekhn.prom. no.5:90-100 '58. (MIRA 12:2)

1. Moskovskiy tekhnologicheskii institut legkoy promyshlennosti.
(Boots and shoes--Testing)

AKULOVA, T.Ye.; UL'YANITSKIY, V.A.; ZYBIN, Yu.P.

Measuring deformations with a mercury strain gauge. Leg.prom.
18 no.6:23-26 Je '58. (MIRA 12:10)
(Strain gages) (Shoe industry)

ZYBIN, Yu.P.; AKULOVA, T.Ye.; SHITSARENKO, L.G.; UL'YANITSKIY, V.A.

Mercury resistance transmitter for measuring large deformations
in materials. Trudy Inst. mash. Sem. po teor. mash. 19 no.76:26-33
'59. (MIRA 13:3)

(Strain gauges)

AKULOVA, T.Ye., inzh.

Investigating the characteristics of shoe fabrics in stretching.
Nauch. trudy MTILP no.28:96-111 '63.

(MIRA 17:11)

1. Kafedra tekhnologii izdeliy iz kozhi Moskovskogo tekhnologicheskogo instituta legkoy promyshlennosti.

SARKISOV, A.Kh., prof.; DZHILAVYAN, Kh.A., kand. vet. nauk; AKULOVA, V.P., kand. vet. nauk; PARFENOV, I.S.; D'YAKONOVA, Ye.V., mladshiy nauchnyy sotrudnik; FAYNSHTEYN, B.B., inzh.-khimik; PAVLOV, A.A.

Use of biovetin in veterinary medicine. Veterinarila 36 no.11:
64-71 N '59 (MIRA 13:3)

1. Vsesoyuznyy institut eksperimental'noy veterinarii (for Sarkisov, Dzhilavyan, Akulova, Parfenov, D'yakonova). 2. Moskovskiy khimiko-farmatsevticheskiy zavod imeni Karpova (for Faynshteyn). 3. Zavednyushchiy eksperimental'nyy tsekhom Moskovskogo khimiko-farmatsevticheskogo zavoda imeni Karpova (for Pavlov).

(Veterinary medicine) (Aureomycin)

KOROLEVA, V.P., kand. biolog. nauk; AKULOVA, V.P., kand. veterin. nauk

Effectiveness of antibiotics against ringworm in cattle.

Veterinariia 40 no.10:48-49 0'63.

(MIRA 17:5)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.

AKULOVA, Ye. A.

Gonorrheal periostitis. Vest. dermat. i ven. 35 no. 1:58-60 Ja '61.
(MIRA 14:3)

1. Iz Krasnodarskogo gorodskogo kozhno-venerologicheskogo dispensera (glavnyy vrach I. F. Grinchenko) i kliniki kozhno-venerologicheskikh bolezney (zav. - dotsent L. Z. Nerađov) Kubanskogo meditsinskogo instituta.

(GONORRHEA)

(PERIOSTIUM—DISEASES)

AKULOVA, Ye.A.

Shift of the maximum in the main absorption band of chlorophyll
to the long-wave part of the spectrum. Dokl. AN SSSR 144
no.5:1172-1173 Je '62. (MIRA 15:6)

1. Laboratoriya lesovedeniya AN SSSR. Predstavleno akademikom
V.N.Sukachevym.
(BOTANY--PHYSIOLOGY) (CHLOROPHYLL--SPECTRA)

AKULOVA, Ye.A.; KHAZANOV, V.S.; TSEL'NIKER, Yu.L.; SHISHOV, D.M.

Light transmission through a forest canopy depending on the
incident radiation and the density of tree crowns. Fiziol.
rast. 11 no.5:818-823 S-O '64. (MIRA 17:10)

1. Laboratoriya lesovedeniya Vsesoyuznogo svetotekhnicheskogo
instituta, Uspenskoye, Moskovskoy oblasti.

AKULOVA, Ye.A.

Dynamics of the absorption of radiant energy by the leaves of
certain plants during a photoperiod. Trudy Kar. fil. AN SSSR
no.37:24-33 '64. (MIRA 18:3)

BERNSHTEYN, M.B., dots.; GORYANOV, V.Yu., prof.; DENISOV, V.V.,
inzh.-elektrik; KHOMYAKOV, N.M., prof., doktor tekhn.
nauk; AKULOVA, Yu.I., inzh., retsenzent; REBO, I.Yu., red.

[Electrical engineering and electrical equipment of ships]
Elektrotehnika i elektrooborudovanie sudov. [By] M.B.
Bernshtein i dr. Moskva, Transport, 1964. 504 p.
(MIRA 18:6)

SEDNEV, M.P.; STAROBINETS, G.L.; AKULOVICH, A.M.

Separation of strontium from calcium and magnesium by ion-exchange chromatography. Zhur. anal. khim. 21 no. 1:23-27 '66
(MIRA 19:1)

1. Belorusskiy gosudarstvennyy universitet imeni Lenina i Institut obshchey i neorganicheskoy khimii AN BSSR, Minsk.

USSR/Plant Physiology. Photosynthesis

I

Abs Jour : Ref Zhur-Biol., No 13, 1958, 58180

Author : Godnev T. N., Akulovich N. K.

Inst : Institute of Biology, Academy of Sciences Belorussian SSR

Title : On the Effect of Ozone on the Correlation of a and b Chlorophylls in Corn Shoots and Young Branches of Lilac

Orig Pub : Byul. In-ta AN BSSR, No 2, 1956 (1957), 88-93

Abstract : Corn shoots and young lilac branches were grown in an atmosphere of ozone for a period of 10 days. Ozone which is a more active oxidizer than oxygen had no effect on the correlation of a and b chlorophylls in the leaves of the plants. A slight inhibition of the chlorophyll accumulation process was noted when the plants were placed in an ozone atmosphere for a period of 10 days.

Card 1/1

~~А.А.ВЕНЧУК~~
GO.MEV, T.N., AKULOVICH, N.K.

Effect of ozone on the interrelation of chlorophyll a and chlorophyll
b in corn sprouts and young lilac twigs. Biol. Inst. biol. AN BSSR
no.2:85-87 '57. (MIRA 11:2)
(Chlorophyll) (Ozone--Physiological effect)

~~GODNEV, T.N.~~
GODNEV, T.N.; AKULOVICH, N.K.

Absorption spectra of protochlorophyll isolated from some plants
belonging to different families. Biol. Inst. biol. AN BSSR no.2:
88-93 '57. (MIRA 11:2)

(Protochlorophyll) (Absorption spectra)

AUTHORS: Godnev, T. N., Member, Academy of Sciences,
Belorussian SSR, Akulovich, N. K. 307/20-120-6-40/59

TITLE: On the Distribution of Chlorophyll Molecules in the Pigment
Layer in Chloroplast Granules (K voprosu o raspredelenii molekul
khlorofilla v pigmentnom sloye granul khloroplastov)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 120, Nr 6,
pp 1307 - 1310 (USSR)

ABSTRACT: The more and more perfected electronographic method combined
with the progress made in microtome technique gives a sufficiently
detailed picture of chloroplast structure (Ref 3). At the be-
ginning a survey of publications is given (Refs 1, 3-7). It
seems to the authors that the problem of the strength of the
complex binding between chlorophyll and protein can be solved
by studying the spectra of the living leaves at a gradual heating
of the latter. If the chlorophyll molecules are associated with
proteins no changes of the spectrum of the living leaf are
supposed to take place at temperatures at which disturbances of
the protein structure are hardly to be expected. If the temper-
ature rise has reached the range of denaturation of the protein
changes of the spectrum become probable since the disturbance

Card 1/3

On the Distribution of Chlorophyll Molecules in the Pigment Layer in Chloroplast Granules 20-120-6-40/59

of the compound protein-chlorophyll and the solution of the latter in the lipoids can be supposed. If a free motion of the chlorophyll molecules is assumed the spectral changes between 20 and 80° are probably completely lacking or are only very unimportant. Maize leaves which were illuminated during 2 hours for 1, 4, and 8 days were chosen as experimental material as well as onion leaves which grew under room conditions during 2 months. The leaves were infiltrated with water and then investigated by means of an SF-4 spectrophotometer in the range of the red maximum (650 - 690 mμ) together with etiolated leaves at room temperature and then at intervals of 3 - 4° within the range of 45 - 80°. Each heating lasted 15 minutes. Spectrophotometric measurements were carried out after cooling. The results of the experiments are shown graphically in figure 1. As can be seen, heating leads to a gradual shifting of the maximum into the direction of shorter waves. The magnitude of shifting differed with the individual objects; on the average it was from 4 - 6 mμ. Leaves which grew during the time of illumination are somewhat more resistant against heating. It seems to the authors that this result represents an additional proof for the close association

Card 2/3

On the Distribution of Chlorophyll Molecules in the Pigment Layer in Chloroplast Granules. 007/20-120-6-40/59

of the chlorophyll molecules with proteins to a complicated complex. There are 2 figures and 10 references, 4 of which are Soviet.

SUBMITTED: March 14, 1958

1. Chlorophylls--Determination
2. Chlorophylls--Spectra
3. Chlorophyll-protein compounds--Analysis
4. Spectrophotometers
- Applications
5. Plants--Molecular structure

Card 3/3

GODNEV, T.N.: AKULOVICH, N.K.; SHABEL'SKAYA, E.F.

On the problem of the immediate precursor of chlorophyll. Biul.
Inst.biol.AN BSSR no.3:89-93 '58. (MIRA 13:7)
(CHLOROPHYLL)

GODNEV, T.N.; AKULOVICH, N.K.

Structure of the pigment of chloroplast granules. Biol. Inst.
biol. AN BSSR no. 3:94-98 '58. (MIRA 13:7)
(CHROMATOPHYTES)

AKULOVICH, N.K.

Spectral characteristics of protochlorophyll in plants of different taxonomic groups. Biul. Inst. biol. AN BSSR no. 3:99-105 '58.
(MIRA 13:7)

(PROTOCHLOROPHYLL--SPECTRA)

AKULOVICH, N.K.

Separation of protochlorophyll by paper chromatography. Dokl.
AN BSSR 3 no.4:174-176 Ap '59. (MIRA 12:10)

1. Predstavleno akademikom AN BSSR T.N. Godnevym.
(Chromatographic analysis) (Chlorophyll)

GODNEV, T.N.; AKULOVICH, N.K.

Accumulation of chlorophyll in leaves of partially etiolated
angiosperms. Dokl.AN BSSR 3 no.12:504-506 D '59.

(MIRA 13:4)

(Chlorophyll)

24(7)

AUTHORS: Godnev, T. N., Akulovich, N. K.

SOV/48-23-1-20/36

TITLE: On the Arrangement of Chlorophyll Molecules in Chloroplast Granules (O raspolozhenii molekul khlorofilla v granulakh khloroplasta)

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 1, pp 94 - 96 (USSR)

ABSTRACT: The attempt was made to answer the question as to whether the chlorophyll molecule forms its more or less narrow complex with albumin or with the lipoid by the denaturation of leaves and by the variation of the spectrum possibly accompanying this process. If the chlorophyll molecule is able to move freely, there would be no spectral variation. For the purpose of investigation, maize leaves were used which were exposed to light for two hours, one day, 4 days, and 8 days, as well as leaves of the onion plant, which had been cultivated for two months under conditions such as prevail in rooms in winter. First, the position of maxima at room temperature was determined, after which spectra were recorded at heating temperatures of 45-80° in inter-

Card 1/2

On the Arrangement of Chlorophyll Molecules in Chloroplast Granules SOV/48-23-1-20/36

vals of $3-4^{\circ}$. The position of the red main maximum in the case of different times of exposure to light and at various temperatures is shown in a table. Heating caused the maximum to shift by 4-6 m μ . A longer time of exposure made the spectra somewhat more sensitive to heating. This result is considered to be a proof of the existence of an additional tendency of chlorophyll to associate with albumin within a narrow complex. Besides, a distribution scheme of the chlorophyll molecules in the pigment layer of chloroplast granules is given and the various assumptions found in this connection in publications are discussed, including those made by Perner (Ref 3), Arnold (Ref 8), Rabinovich (Ref 6), and others. There are 1 figure, 1 table, and 8 references, 2 of which are Soviet.

Card 2/2

GODNEV, T.N.; AKULOVICH, N.K.

Effect of brief ultraviolet light pulses on protochlorophyll formation in etiolated barley seedlings. Biul. Inst. biol. AN BSSR no.5:116-117 '60. (MIRA 14:7)

(PLANTS, EFFECT OF ULTRAVIOLET LIGHT ON)
(CHLOROPHYLL)

GODNEV, T.N.; AKULOVICH, N.K.

Changes in the spectral properties of green pigments in the
internal integuments of pumpkin seeds during ripening. Biul.
Inst. biol. AN BSSR no.5:118-126 '60. (MIRA 14:7)

(CHLOROPHYLL) (PUMPKIN SEED)

GODNEV, T.N.; AKULOVICH, N.K.

Changes in the relation between the esterified and free parts of
the chlorophyll molecule during its formation. Biol. Inst.
biol. AN BSSR no.5:127-130 '60. (MIRA 14:7)
(CHLOROPHYLL)

GODNEV, T.N., akademik; AKULOVICH, N.K.

Changes in the ratio between the esterified and the free portion
of the chlorophyll molecule during the process of its formation.
Dokl.AN SSSR 133 no.5:1213-1215 Ag '60. (MIRA 13:8)

1. Institut biologii Akademii nauk BSSR. Akademiya nauk BSSR
(for Godnev).
(Chlorophyll)

GODNEV, T.N., akademik; AKULOVICH, N.K.

Nature of pigments of the protochlorophyll group. Dokl. AN SSSR 134
no.3:710-712 S '60. (MIRA 13:9)

1. Institut biologii Akademii nauk BSSR. 2. Akademiya nauk AN BSSR
(for Godnev).

(CHLOROPHYLL)

AKULOVICH, N. K.

Cand Biol Sci - (diss) "Spectral properties of protochlorophyll of plants of different systematic groups." Minsk, 1961. 15 pp; (Belorussian State Univ imeni V. I. Lenin); 220 copies; price not given; (KL, 6-61 sup, 205)

AKULOVICH, N. K., ROTFARB, R. M., and GODNEV, I. N. (USSR)

"Final Reactions in the Biosynthesis of Chlorophyll and Certain
Factors Influencing their Course."

Report presented at the 5th International Biochemistry Congress,
Moscow, 10-16 Aug 1961

GODNEV, T.N.; AKULOVICH, M.K.; ARNAUTOVA, A.I.

Structural formula of protochlorophyll of Rhodospseudomonas
spheroides and some varieties of pumpkin. Biul. Inst. biol.
AN BSSR no.6:105-110 '61. (MIRA 15:3)
(CHLOROPHYLL)

GODNEV, T.N. [Hodneu, TS.M.], akademik; ROTFARB, R.M.; AKULOVICH, N.K.

End reactions in the biosynthesis of chlorophyll and conditions of
their progress. Vestsi AN BssR.Ser.bial.nav. no.2:5-8 '62.
(MIRA 15:8)

1. AN Belorusskoy SSR.

(CHLOROPHYLL)

GODNEV, T.N.; AKULOVICH, N.K.; ROTFARB, R.M. (Minsk)

Complete synthesis of chlorophyll and its biosynthesis. Usp.
sovr. biol. 55 no.2:204-218 '63. (MIRA 17:8)

GODNEV, T.N., akademik; AKULOVICH, N.K.; KHODASEVICH, E.V.

Participation of the etherified and unetherified forms of the
protochlorophyll of etiolated sprouts in the formation of
a-chlorophyll. Dokl. AN SSSR 150 no.4:920-923 Je '63.

(MIRA 16:6)

1. Institut biologii AN BSSR,
(Chlorophyll) (Etiolation)

ACCESSION NR: AP4036730

S/0020/64/156/002/0471/0473

AUTHOR: Godnev, T. N. (Academician, AN BSSR); Khodasevich, E. V.; Akulovich, N. K.

TITLE: On the secondary action of powerful light pulses on the stability of photosynthesizing systems

SOURCE: AN SSSR. Doklady*, v. 156, no. 2, 1964, 471-473

TOPIC TAGS: photosynthesis, chloroplast, chlorophyll, transmutation, pigment system, protochlorophyll, quantum light energy

ABSTRACT: The authors were interested in tracing the effect of powerful light intensities, during long periods of exposure, so as to quantitatively study the capacity of chloroplasts to repeat photochlorophyll production and chlorophyll storage during subsequent illumination by diffused light. In addition, the after-effects of repeated powerful short flashes were studied. The experimental subjects were 12-day old etiolated intersprouts of corn. The plants were exposed at 6-second intervals to powerful (10^{10} erg/cm-sec) light sources having frequencies of 1, 2, 10, and 100 pulses per sec and a duration of 1/500 sec. It was concluded that

Card 1/2

ACCESSION NR: AP4036730

the photochlorophyll of the plants was transmuted into chlorophyll (chlorophyllide + chlorophyll) from 42% (at 1 pulse) to 36% (at 100 pulses) of protochlorophyll. It was determined that the transmuted protochlorophyll gave no evidence of destructive action on the pigment system and that the process of protochlorophyll accumulation continued normally. The photosynthesizing system, as a whole and contiguous to the chloroplast of plasma, was not damaged by the brief exposure to large amounts of quantum light energy. Orig. art. has: 2 tables.

ASSOCIATION: Institut eksperimental'noy botaniki i mikrobiologii. Akademii nauk BSSR (Institute of Experimental Botany and Microbiology, Academy of Sciences, BSSR)

SUBMITTED: 07Jan64

DATE ACQ: 16Jun64

ENCL: 00

SUB CODE: LS

NO REF SOV: 001

OTHER: 008

Card 2/2

GODNEV, T.N., akademik; KHODASEVICH, E.V.; AKULOVICH, N.K.

Aftereffects of powerful light impulses on the stability
of photosynthesizing apparatus. Dokl. AN SSSR 156 no. 2:
471-473 My '64. (MIRA 17:7)

1. Institut eksperimental'noy botaniki i mikrobiologii AN
BSSR.

L 38263-66 EWT(1) SCTB DD

ACC NR: AP6028677

SOURCE CODE: UR/0020/66/167/003/0702/0705

AUTHOR: Uspenskaya, V. E.; Kondrat'yeva, Ye. N.; Akulovich, N. K. 2/6

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Separation of two chlorophylls of green bacteria with chromatography

SOURCE: AN SSSR. Doklady, v. 167, no. 3, 1966, 702-705

TOPIC TAGS: bacteriology, paper chromatography, chlorophyll

ABSTRACT: The authors attempted to find a simple method of separating chlorophylls of green bacteria and of comparing the properties of the second chlorophyll of these organisms with the properties of bacteriophyll of purple bacteria. They discovered that green bacteria, along with bacterioviridine, contain a small amount of bacteriophyll. These pigments can be separated by paper chromatography in an isopropanolbenzene system (boiling point 90-110°) and column chromatography with various absorbents (aluminum oxide in stage II of activity, saccharose, polyethylene) if concentrated extracts of the pigments of green bacteria are used. This article was presented by Academician V. N. Shaposhnikov on 18 May 1965. Orig. art. has: 4 figures. [JPRS: 36,932]

SUB CODE: 06 / SUBM DATE: 13May65 / ORIG REF: 002 / OTH REF: 011

Cord 1/1 mcr

UDC: 576.8.094.83

CA AKULOVICH, V.M.

26

Extraction of rosin from tar-impregnated wood stumps by dichloroethane. M. M. Pavlyuchenko and V. M. Akulovich. *Izvest. Akad. Nauk Beloruss. S.S.R.* 1946, No. 4, 103-18.—The extn. of rosin from residual tree stumps that had been left in the ground for several years after cutting of the pine trees, as well as the recovery of turpentine values from such sources, were examd. The degree and rate of extn. by $\text{ClCH}_2\text{CH}_2\text{Cl}$ are much greater than in the case of extn. with gasoline. In extn. done on chips of the stumps the rate of extn. is inversely proportional to the dimensions of the chips used; these were of cubical shape for more ready comparison. The variation can be readily accounted for by the usual considerations of extn. processes and the concurrent diffusion of the extractant from the interior of the wood. By repeated extn. it is possible to ext. over 90% of the total resinous content of the wood. CCl_4 is a less effective solvent and appears to be more corrosive to equipment than $\text{ClCH}_2\text{CH}_2\text{Cl}$. G. M. Kosolapoff

AKULOVICH, V. M.

AKULOVICH, V. M.--"Investigation of the Principal Resin Acids of the Ordinary Pine Using Optical Methods." Acad Sci Belorussian SSR. Department of Physicomathematical and Technical Sciences. Minsk, 1955. (Dissertation for the Degree of Candidate of Chemical Sciences).

SO: Knizhnaya Letopis' No. 27. 2 July 1955

AKulovich, V.M.

5

Products of oxidation of resin acids. M. M. Pavlov.

chenko, V. M. Akulovich and N. N. Bul'go. Zhur.

Obshchei Khim. 38, 214-18 (1955); cf. C.A. 50, 5901.

Products of oxidation of resin with O_2 at 50-60° and with air at room temp. were examd. in acetic acid and the solid part of the resin were studied. The oxidation products contain peroxide groups. The oxidation of resin acids drops by a factor of 10 when the temperature is raised from 25° to 50°.

where t is temp. in °C, k is a monomolecular constant. The solid fraction of resin oxidation is some 25-30% active (based on added O_2), while in the acid this value is but 10%. Oxidation reduces the activity of acetic acid at 25° C. and of resin at 50° C.

may

2

Inst.-chem., Belo AS.

SOV/81-59-16-56832

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 16, p 119 (USSR)

AUTHORS: Akulovich, V.M., Pavlyuchenko, M.M.

TITLE: The Spectral Determination of Potassium in Mineral Salts

PERIODICAL: Sb. dokl. 1-y Nauchno-tekhn. konferentsii po spektr. analizu. Minsk, AN BSSR, 1956, pp 40-46

ABSTRACT: In the hollow of a Cu-plate moving during exposure with a rate of 1.4 mm/sec 1 g of the sample containing up to 50% KCl is placed. As upper electrode a carbon rod sharpened to a truncated cone is used. The spectra are excited in the discharge of a low-voltage spark at a capacitance of 20 μ fa, a current intensity of 4 a and an operating gap of 2 mm. The standards and the samples are diluted in the ratio of 1 : 2 by means of NH_4Cl containing 1% of CdCl_2 . The analysis is carried out, with allowance for the background, by the line K 3446.7-Cd 3466.2 Å; at concentrations of $\text{KCl} < 5\%$ the lines K 4047.2-Cd 3610.5 Å are employed. The error of analysis is $\pm 7\%$. Similarly the analysis of the soluble part of K-fertilizers is carried out. For this purpose strips of filter paper are soaked in a solution containing together up to 5% KCl and NaCl and are fastened on a cylindrical horizontal moving Cu-electrode. The analysis is carried

Card 1/2

The Spectral Determination of Potassium in Mineral Salts

SOV/81-59-16-56832

out with the upper Cu-electrode by the line K 3446.6 A with allowance for and with respect to the background. The standards are prepared by mixing KCl and NaCl or their solutions. A satisfactory agreement of the data of the spectral analysis and chemical analysis carried out with the application of tartaric acid has been noted.

G. Kibisov.

Card 2/2

SOV/81-56-16-56812

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 16, p 115 (USSR)

AUTHORS: Akulovich, V.M., Filonov, B.O., Pavlyuchenko, M.M.

TITLE: Some Possibilities of the Method of Additions in the Spectral Analysis of Mineral Salts

PERIODICAL: Sb. dokl. 1-y Nauchno-tekhn. konferentsii po spektr. analizu. Minsk, AN BSSR, 1956, pp 47-52

ABSTRACT: A method of extrapolation for finding the concentrations of an element on the base of the known dependence $R = AC^b$ at any values of b is described. If the sample is divided into 3 fractions and in 2 of them additions $a\%$ and $c\%$ are made, then $R_x = Ax^b$; $R_{x+a} = A(x+a)^b$ and $R_{x+c} = A(x+c)^b$. Converting into logarithms and excluding b , the following equation is obtained: $\lg(R_x/R_{x+a}) \cdot \lg(x+a)/(x+c) = \lg(R_{x+a}/R_{x+c})$. The latter equation has a simple solution under the condition: $\lg R_x/R_{x+a} = \lg R_{x+a}/R_{x+c}$, from which follows that $R_{x+a} = \sqrt{R_x \cdot R_{x+c}}$. Then $(x+a)/(x+c) = x/(x+a)$ and the calculated formula has the form: $x = a^2/(c - 2a)$. For analysis a graph is plotted in the coordinates R versus concentration of additions; the geometric mean is calculated between the relative intensities for the sample without additions

Card 1/2

SOV/81-59-16-56812

Some Possibilities of the Method of Additions in the Spectral Analysis of Mineral Salts

and for the sample with a greater addition and, based on the value of R , the corresponding addition a is determined from the graph and substituting the values in the calculated formula, x is found. Extrapolation needs the consideration of the background; in the absence of a background the calculation can be carried out based on the values of ΔS . The method has been successfully tested by practice.

G. Kibisov.

Card 2/2

AKULOVICH, V.M.

USSR/ Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry.
Catalysis

B-9

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11267

Author : Pavlyuchenko M.M., Akulovich V.M.

Inst : Academy of Sciences Belorussian SSR

Title : Kinetics of Calcium Abietate Oxidation with Oxygen

Orig Pub : Vestsi AN BSSR, Ser. fiz.-tkhn. n., Izv. AN BSSR. Ser. fiz.-tekhn. n.,
1956, No 1, 77-86 (Belorussian; Russian summary)

Abstract : Study of oxidation of calcium abietate with oxygen at 70-110° and O₂
pressure 150-800 mm Hg. At temperatures < 80° reaction occurs within
kinetic region and at higher temperatures in that of diffusion. Reaction
under study takes place with participation of adsorbed oxygen.
In view of a decrease in double bonds following oxidation the authors
consider that one of the possible courses of oxidation is the addition
of oxygen to the double bond.

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720020-9

A. K. O'LOUGH, U. M.

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720020-9"

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720020-9

Prodvich, V. M.

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720020-9"

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720020-9

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720020-9"

AKULOVICH, V. M., K. V. DUBOVIK, N. N. BULYGO, and M. M. PAVLYUCHENKO

"Trace Elements (B, Mn, Sr, Zn) in Salts of Starobinskoye mestorozhdeniye (Deposit) and Their Quantitative Spectrum Analysis" p. 102

Sbornik nauchnykh rabot, vyp. 6 (Collection of Scientific Works of the Institute of Chemistry, Belorussian SSR Academy of Sciences, No. 6) Minsk, Izd-vo AN Beloursskoy SSR, 1958, 271 pp.

APukovich, V.M.

24(7)

PLANE I BOOK EXPLORATION

Nov. Universitet

Materialy X Vsesoyuznogo soveshchaniya po spektroskopii, 1956.
 1. Atomsaya spektroskopiya (Materialy 10th All-Union
 Conference on Spectroscopy, 1956. Vol. 2. Atomic Spectroscopy)
 /Muz. Izd-vo L'vovskogo univ'sta. 1958. 568 p. (Series: Itai.
 Nauchnyy sbornik, 779.3(9)). 3,000 copies printed.

Additional Sponsoring Agency: Akademiya nauk SSSR. Komissiya po
 spektroskopii.

Editorial Board: G.S. Landsberg, Academician, (Mosc. U.);
 M.S. Reporent, Doctor of Physical and Mathematical Sciences;
 I.M. Fabrikant, Doctor of Physical and Mathematical Sciences;
 V.A. Fabrikant, Doctor of Physical and Mathematical Sciences;
 V.G. Koritskiy, Candidate of Technical Sciences, K. M. Bykov;
 Candidate of Physical and Mathematical Sciences, K. M. Bykov;
 Candidate of Physical and Mathematical Sciences, V. S. Klyuchuk
 (Mosc.); Doctor of Physical and Mathematical Sciences, A.Ye.
 Glushchenko, Doctor of Physical and Mathematical Sciences;
 M.I. M.L. Gasser, Tech. M.I. Z.V. Saranyuk.

Purpose. This book is intended for scientists and researchers in
 the field of spectroscopy, as well as for technical personnel
 using spectrum analysis in various industries.

Contents: This volume contains 177 scientific and technical studies
 of atomic spectroscopy presented at the 10th All-Union Confer-
 ence on Spectroscopy in 1956. The studies were carried out by
 members of scientific and technical institutes and include
 extensive bibliographies of Soviet and other sources. The
 studies cover many phases of spectroscopy: spectra of rare earths,
 electromagnetic radiation, physicochemical methods for controlling
 uranium production, physics and technology of gas discharge,
 optics and spectroscopy, atomic absorption spectroscopy, laser
 spectroscopy, photometric methods for quantitative analysis of ores
 and minerals, photographic methods for quantitative analysis of
 analysis of metals and alloys, spectral determination of the
 hydrogen content of metals by means of isotopes, tables, and
 atlases of spectral lines, spark spectrographic analysis,
 statistical study of variation in the parameters of calibration
 curves, determination of traces of metals, spectrum analysis in
 metallurgy, thermochemistry in metallurgy, and principles and
 practice of spectrochemical analysis.

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Materials of the 10th All-Union Conference (cont.)
 512
 Agdarov, T.K. Spectrum Analysis of Lithium in Brines
 516
 Pavlyuchenko, M.M., V.M. Apukovich, and I.O. Pilonov. Spectral
 Determination of Microelements in Mineral Salts
 519
 Pertsov, G.A. Use of Emission Spectrum Analysis in the
 Chemical Reagent Industry
 521
 Kartlin'sh, R.Ye., A.K. Pasko, and E.A. Silin'sh. Use of
 Spectrum Analysis in Titrio Acid Production
 522
 Palatnik, I.I. Determination of Calcium Oxide in Fluxed
 Joints by Means of a Spectrometer
 524
 Plesner, V.D., and T.I. Ivanova. Quenching of Cyanogen Bands
 528
 Kallinov, V.Y., and I.I. Ionova. Statistical Study of Variations
 in the Parameters of Calibration Curves

Card 29/31

PAVLYUCHENKO, M.M.; AKULOVICH, V.M.; FILONOV, I.O.

Spectral determination of trace elements in mineral salts.
Fiz.sbor. no.4:516-519 '58. (MIRA 12:5)

1. Institut khimii AN BSSR.
(Trace elements--Spectra)

PAVLYUCHENKO, M.M.; ~~AKULOVICH, V.M.~~; DUBOVIK, K.V.; BULYGO, N.N.

Microelements (B,Mn,Sr,Zn) and their quantitative spectrum determination in salts of Starobin deposits. Sbor. nauch. rab. Inst. khim. AN BSSR no.6:102-114 '58. (MIRA 11:11)

(Trace elements--Spectra) (Starobin--Potassium salts)

S/713/60/000/001/002/005
D204/D303

AUTHORS: Pavlyuchenko, M.M., and Akulovich, V.M

TITLE: Determining K, Na and insoluble residue in K salts
by flame photometry and refractometry

SOURCE: Akademia nauk BSSR, Minsk. Institut obshchey i neorganicheskoy khimii. Sbornik nauchnykh rabot. no. 1,
Minsk, 1960, 35 - 42

TEXT: The object of this work was to apply flame photometry to analyzing natural K deposits. The method, which consisted of spraying the aqueous solutions into an air-acetylene flame and analyzing the latter with the CF-4 (SF-4) spectrophotometer, is described and illustrated in some detail. K-766 m μ and Na-589 m μ lines were observed. Standards containing 1g NaCl and KCl/220 ml H₂O were prepared, KCl varying from 0.5 to 100 % of the total salts, and were used to plot calibration line intensity concentration curves. It was found that the relative analytical error of this procedure $\leq$ 4 % and was considerably

Card 1/2

PROLESKOVSKIY, Yu.A. [Praliaskowski, IU.A.]; AKULOVICH, V.M.

Behavior of the impurity line in connection with the solidus-
liquidus diagram for certain systems of oxides and salts.
Report No.1: Vestsi AN BSSR.Ser.khim.nav. no.2:35-40 '65.
(MIRA 18:12)

AKULOVA, Ye. A.

Case of scleroma of unusual localization. Vest. ven. i derm. no. 2:
48-52 Mr-Apr '55. (MIRA 8:5)

1. Iz Krasnodarskogo gorodskogo kozhno-venerologicheskogo dispan-
sara (glavnyy vrach M.S. Promskiy) i kliniki kozhno-verericheskikh
bolezni (zav. prof. I.I. Pototskiy) Kubanskogo meditsinskogo in-
stituta.

(RHINOSCLEROMA,
scleroma of extremities & other organs)

AKUL'SHIN, A.

New profession. Sov.shakht. 10 no.10:38-39 0 '61.
(MIRA 14:12)
(Electricians---Education and training)
(Automation)

KORABLEV, Anatoliy Aleksandrovich; TSENTNARSKIY, Igor' Aleksandrovich;
KOVALEV, Yuriy Sergeyevich; AKUL'SHIN, A.F., inzh.,
retsenzent; MEL'KUMOV, L.G., inzh., retsenzent; BOGOPOL'SKIY,
B.Kh., otv. red.; ABRAMOV, V.I., red.izd-va; ZHIVRINA, G.V.,
tekhn. red.; BOLDYREVA, Z.A., tekhn. red.

[Handbook for mine electricians servicing automatic control
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